

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	9	("3932016"   "4932889"   "5055970"   "5315478"   "5360969"   "5483422"   "6033253"   "6056579"   "6145748").PN. OR ("6527189").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/02 12:10
L6	12	("2297285"   "3216136"   "5038926"   "5500517"   "5959281"   "6112996"   "6422469"   "6447140"   "6522534"   "6618243").PN. OR ("7000842").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/02 12:06
L5	489	235/486.ccls.	US-PGPUB; USPAT	OR	OFF	2006/11/02 11:46
L4	2806	235/492.ccls.	US-PGPUB; USPAT	OR	OFF	2006/11/02 11:46
L3	461	235/451.ccls.	US-PGPUB; USPAT	OR	OFF	2006/11/02 11:23
S20	180	S18 and "235"/494.ccls.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/02 11:14
L2	47	("2936439"   "4404464"   "4443049"   "4449775").PN. OR ("5091618").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/02 11:12
S51	47	("2936439"   "4404464"   "4443049"   "4449775").PN. OR ("5091618").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/12 14:56
S50	3	(("5750973") or ("5679007") or ("6015092")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/07/12 14:48
S43	2	"20050061884"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 14:47
S49	11	("5091618"   "5099111"   "5120946"   "5640307"   "5703346").PN. OR ("5898159").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/12 13:18
S48	2	("5091618").PN. OR ("6070797").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/12 13:16
S47	13	("1001035"   "4006336"   "4501465"   "4747790"   "4900272"   "4900273"   "5012078"   "5013255"   "5091618"   "5667408").PN. OR ("6179638").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/12 13:13
S46	47	("2936439"   "4404464"   "4443049"   "4449775").PN. OR ("5091618").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/12 13:08

## EAST Search History

S45	2	"20040050937"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 12:15
S44	2	"20050103851"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 12:14
S42	25	("4887188"   "4900273"   "5013255"   "5033972").PN. OR ("5330363").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/20 08:49
S41	31	("4221448"   "4721348"   "4724310"   "4735578"   "4887188"   "4938716"   "4961710"   "5012078"   "5013255"   "5033972"   "5091618"   "5259777"   "5321247"   "5330363"   "5334034"   "5334827"   "5336877"   "5463210"   "5653610"   "5667397"   "5796085").PN. OR ("5936222").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/20 08:45
S40	1	("5936222").PN.	USPAT; USOCR	OR	OFF	2006/02/20 08:44
S39	37	((place\$3 or hold or secur\$4) near5 tab ) same (( smart or Ic or chip) adj10 card)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/20 08:44
S38	211	((place\$3 or hold or secur\$4) near5 tab ) same ( card adj20 read\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/20 08:28
S37	791	((place\$3 or hold or secur\$4) near5 tab ) and ( card adj20 read\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/20 08:05
S36	38	((place\$3 or hold or secur\$4) near5 tab ) near40 ( read\$3) near40 card	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/20 08:05
S35	1140	((place\$3 or hold or secur\$4) near5 tab ) near40 ( read\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/20 07:59
S33	395	(place\$3 near5 tab ) near40 ( read\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/20 07:59

## EAST Search History

S34	20	("3706874"   "4004136"   "4822988"   "4904853"   "4994659"   "5036184"   "5146069"   "5192859"   "5262629"   "5563400"   "5594233"   "5648651"   "5733147"   "5790659"   "5836779").PN. OR ("6006987").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/20 07:52
S32	12	(place\$3 near5 tab ) near40 (card adj30 read\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/02/20 07:49
S31	15	("5051566").PN. OR ("6129571").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/20 07:41
S30	15	("5051566").PN. OR ("6129571").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/20 07:35
S29	2	("5729000").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/20 11:16
S28	2	("6588673").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/20 11:16
S27	3	("6558673").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/20 10:04
S26	6	((("5750973") or ("5679007") or ("6015092"))).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/20 08:44
S25	11	("5091618"   "5099111"   "5120946"   "5640307"   "5703346").PN. OR ("5898159").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/20 08:44
S24	46	("2936439"   "4404464"   "4443049"   "4449775").PN. OR ("5091618").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/20 08:34
S23	30	("4221448"   "4721348"   "4724310"   "4735578"   "4887188"   "4938716"   "4961710"   "5012078"   "5013255"   "5033972"   "5091618"   "5259777"   "5321247"   "5330363"   "5334034"   "5334827"   "5336877"   "5463210"   "5653610"   "5667397"   "5796085").PN. OR ("5936222").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/05/20 08:29

## EAST Search History

S21	1	"20050061884"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/20 07:50
S4	0	(smart adj20 read\$3) near40 (abrasi\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/20 07:47
S19	3327	S18 and "235"/\$7.ccls.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/23 07:17
S18	875015	substantially.clm.	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/12/23 07:17
S17	65	(card adj30 read\$3) near40 (reduc\$3 or minimiz\$3 or prevent\$3 or improv\$3 or prolong\$3) near40 (friction or wear or tear or abras\$3)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2004/12/22 09:35
S16	38	S14 and "235"/\$7.ccls.	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2004/12/22 09:34
S14	81	((smart or IC or chip) adj20 card\$3) near40 (abrasive or wear)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2004/12/22 09:25
S15	8	("4871905"   "5508501"   "5633490"   "5726432"   "5729000"   "5872353"   "5949048").PN. OR ("6267295").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/22 09:20
S13	14	((smart or IC or chip) adj20 card\$3) same (abrasive)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2004/12/22 09:12
S12	1	((smart or IC or chip) adj20 card\$3) near40 (abrasive)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2004/12/22 08:42
S8	25	((smart or IC or chip) adj20 card\$3) near40 (abrasi\$3)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2004/12/22 08:42
S11	29	("4046994"   "4692602"   "4717817"   "4799891"   "4833310"   "4869672"   "4926032"   "4976630"   "4990758"   "5015830"   "5017764").PN. OR ("5198645").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/22 07:48

## EAST Search History

S10	39	("3917372"   "4236667"   "4288140"   "4575703"   "4717817"   "4724310"   "4734567"   "4735578"   "4752234"   "4770639"   "4795897"   "4799891"   "4814593"   "4874323"   "4900273"   "4932889"   "4975086"   "4976630"   "5196680"   "5198645"   "5259777"   "5269707"   "5320552"   "5334034"   "5334827"   "5336877"   "5369259").PN. OR ("5872353").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/22 07:36
S9	27	("4735578"   "4752234"   "4799891"   "4814593"   "4932889"   "4975086"   "4976630"   "5259777"   "5269707"   "5320552"   "5334034"   "5334827"   "5336877"   "5369259"   "5370544"   "5550361"   "5586890"   "5640307"   "5718609"   "5726432"   "5796085"   "5796093"   "5814805"   "5821515"   "5837984"   "5872353").PN. OR ("6105868").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/22 07:35
S7	62	(smart adj20 read\$3) and (abradi\$3)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2004/12/22 07:29
S6	2	(smart adj20 read\$3) same (abradi\$3)	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2004/12/22 07:24
S5	2	(smart adj20 read\$3) same (abradi\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2004/12/22 07:22